```
SEQUENCE LISTING
   <110> O'CONNOR, MARK J.
         ZIMMERMAN, HOLGER
         POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FOR USE IN
         TRANSCRIPTIONAL REGULATION
   <130> 117-328
   <140> US 09/701,080
   <141> 2001-02-27
   <150> GB 9811303.8
   √151> 1998-05-26
   <150> GB 9900157.0
   <151> 1999-01-05
   <160> 36
   <170> PatentIn Ver. 2.1
تتعق
   <210> 1
<211> 13
Œ,
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial $equence:derived from E1A
ħ,
   Val Asn Glu Phe Phe Pro Glu Se\!\!\!\!/\, Leu Ile Leu Ala Ala
                      5
   <210> 2
   <211> 11
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: derived from E1A
   <400> 2
   Val Asn Glu Phe Phe Pro/Ala Ser Ala Ile Leu
   <210> 3
    <211> 11
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence:derived from E1A
```

```
<400> 3
   Val Asn Glu Phe Ala Pro Ala Ser Ala Ile Ala
   <210> 4
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence: derived from p53
   <400> 4
   Ser Gln Glu Thr Phe Ser Asp Leu Trp Lys Leu Pro
   <210> 5
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: derived from E2F
Ш
   <400> 5
   Phe Asp Cys Asp Phe Gly Asp Leu Thr Pro Leu Asp Phe
                                         10
<210> 6
   <211> 19
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artifi/cial Sequence:derived from Mdm-2
   <400> 6
   Lys Lys Leu Lys Lys Arg Asn Lys Pro Cys Pro Val Cys Arg Gln Pro
     1
   Ile Gln Met
   <210> 7
   <211> 19
   <212> PRT
   <213> Artificial Sequence
    <220>
    <223> Description \phif Artificial Sequence:derived from CBP
    <400> 7
    Gly Cys Lys Arg Lys Thr Asn Gly Gly Cys Pro Val Cys Lys Gln Leu
    Ile Ala Leu
```

•

```
<210> 8
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence: der/ived from E1A
   Val Asn Glu Phe Phe Pro Glu Ser Leu Ile Leu Ala Ala
   <210> 9
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence: derived from p53
   <400> 9
   Ser Gln Glu Thr Phe Ser Asp Leu T#p Lys Leu Leu Pro
                                         10
   <210> 10
<211> 13
   <212> PRT
   <213> Artificial Sequence
<220>
   <223> Description of Artifi\phiial Sequence:derived from E2F
N
   Phe Asp Cys Asp Phe Gly Asp Leu Thr Pro Leu Asp Phe
   <210> 11
   <211> 13
    <212> PRT
    <213> Artificial Sequence
   <223> Description of Artificial Sequence: derived from TFIIB
    <400> 11
   Met Met Asn Ala Phe Lys Glu Ile Thr Thr Met Ala Asp
    <210> 12
    <211> 13
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> Description of Artificial Sequence: derived from YY1
    <400> 12
```

```
Ala Glu Asp Gly Phe Glu Asp Gln Ile Leu Ile Pro Val
     1
   <210> 13
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: derived from YY1
   <400> 13
   Cys Thr Lys Met Phe Arg Asp Asn Ser Ala Met Arg Lys
   <210> 14
   <211> 13
   <212> PRT
   <213> Artificial Sequence
   <220>
4]
   <223> Description of Artificial Sequence: derived from YY1
뒥
   <400> 14
   Cys Gly Lys Ala Phe Val Glu Ser Ser Lys Leu Lys Arg
                                          10
ũ
   <210> 15
   <211> 13
   <212> PRT
   <213> Artificial Sequence
A.
   <220>
   <223> Description of Artificial Sequence:derived from MyoD
   <400> 15
   Thr Thr Asp Asp Phe Tyr Asp Asp Pro Cys Phe Asp Ser
   <210> 16
    <211> 19
    <212> PRT
    <213> Artificial Sequence
   <220>
   <223> Description \phif Artificial Sequence:derived from CBP
   Gly Cys Lys Arg Lys Thr Asn Gly Gly Cys Pro Val Cys Lys Gln Leu
    Ile Ala Leu
    <210> 17
    <211> 19
    <212> PRT
    <213> Artifi¢ial Sequence
```

```
<220>
<223> Description of Artificial Sequence: derived from p300
<400> 17
Gly Cys Lys Arg Lys Thr Asn Gly Gly Cys Pro Ile Cys Lys Gln Leu
Ile Ala Leu
<210> 18
<211> 151
<212> PRT
<213> Human papillomavirus
<400> 18
Met Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys Leu Pro Gln ↓eu Cys
Thr Glu Leu Gln Thr Thr Ile His Asp Ile Ile Leu Glu Cys Val Tyr
Cys Lys Gln Gln Leu Leu Arg Arg Glu Val Tyr Asp Phe Ala Phe Arg
Asp Leu Cys Ile Val Tyr Arg Asp Gly Asn Pro Tyr/Ala Val Cys Asp
Lys Cys Leu Lys Phe Tyr Ser Lys Tyr Ser Glu Tyr Arg His Tyr Cys
                                          75
                     70
Tyr Ser Leu Tyr Gly Thr Thr Leu Glu Gln G/n Tyr Asn Lys Pro Leu
                                      90
Cys Asp Leu Leu Ile Arg Cys Ile Asn Cys Gln Lys Pro Leu Cys Pro
                                 105
Glu Glu Lys Gln Arg His Leu Asp Lys/Lys Gln Arg Phe His Asn Ile
                                                 125
                            120
        115
Arg Gly Arg Trp Thr Gly Arg Cys Met Ser Cys Cys Arg Ser Ser Arg
                        135
Thr Arg Arg Glu Thr Gln Leu
145
                    150
<210> 19
<211> 49
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of /Artificial Sequence: polylinker of plasmid pMALP
                                                                    49
ggatccgtcg acctcga#cc cgggctgcag aagcttgatt gattagctt
```

```
<210> 20
   <211> 12
   <212> PRT
   <213> Artificial Sequence
   <220>
   <221> VARIANT
   <222> (1)
   <223> Xaa represents Lys or Arg
   <220>
   <221> VARIANT
   <222> (2)
   <223> Xaa represents Lys or Arg
   <220>
   <221> VARIANT
   <222> (3)
   <223> Xaa represents any amino acid
   <220>
   <221> VARIANT
   <222> (5)
   <223> Xaa represents any amino acid
1
   <220>
<221> VARIANT
   <222> (6)
   <223> Xaa represents any amino acid
Ξ
N
   <220>
   <221> VARIANT
    <222> (9)
   <223> Xaa is Val or Ile
   <220>
    <221> VARIANT
   <222> (11)
   <223> Xaa represents Lys or Arg
   <220>
   <221> VARIANT
    <222> (12)
   <223> Xaa represents any amino/acid
    <220>
    <223> Description of Artificial Sequence: consensus sequence of transcriptional
    adaptor
         motif (TRAM)
    <400> 20
    Xaa Xaa Xaa Asn Xaa Xaa tys Pro Xaa Cys Xaa Xaa
                      5
    <210> 21
    <211> 13
    <212> PRT
```

```
<213> Artificial Sequence
   <220>
   <221> VARIANT
   <222> (1)
    <223> Xaa represents Lys or Arg
   <220>
    <221> VARIANT
    <222> (2)
   <223> Xaa represents Lys or Arg
   <220>
    <221> VARIANT
    <222> (3)
    <223> Xaa represents any amino acid
    <220>
    <221> VARIANT
   <222> (5)
   <223> Xaa represents any amino acid
ا
اوپ<sup>و</sup>
    <220>
    <221> VARIANT
    <222> (6)
    <223> Xaa represents any amino acid
    <220>
    <221> VARIANT
<222> (9)
N
   <223> Xaa represents Val or Ile
Ŋ.
    <220>
    <221> VARIANT
    <222> (11)
    <223> where Xaa represents Lys or Arg
    <220>
    <221> VARIANT
    <222> (12)
    <223> Xaa represents any amino acid
    <220>
    <223> Description of Artificial Sequence:consensus sequence of transcriptional
    adaptor
          motif (TRAM)
    <400> 21
    Xaa Xaa Xaa Asn Xaa Xaa Cys Pro Xaa Cys Xaa Xaa Ile
    <210> 22
    <211> 7
    <212> PRT
    <213> Artificial Sequence
```

```
<220>
   <221> VARIANT
   <222> (2)
   <223> Xaa represents any amino acid
   <220>
   <221> VARIANT
   <222> (3)
   <223> Xaa represents Glu or Asp
   <220>
   <221> VARIANT
   <222> (4)..(6)
   <223> Xaa represents any amino acid
   <223> Description of Artificial Sequence: consensus sequence of Transcriptional
   interaction motif(TRIM)
   <400> 22
   Phe Xaa Xaa Xaa Xaa Leu
   <210> 23
   <211> 7
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: der/ved from E1A
T.
   <400> 23
fi.
    Phe Pro Glu Ser Leu Ile Leu
   <210> 24
    <211> 7
    <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: derived from p53
    Phe Ser Asp Leu Trp Lys Leu
    <210> 25
    <211> 7
    <212> PRT
    <213> Artificial Sequence
    <223> Description of Artificial Sequence: derived from TFIIB
    <400> 25
    Phe Lys Glu Ile Thr Thr Met
```

, ...

```
<210> 26
   <211> 7
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence:derived from YY1
   <400> 26
    Phe Glu Asp Gln Ile Leu Ile
    <210> 27
    <211> 7
    <212> PRT
    <213> Artificial Sequence
<223> Description of Artificial Sequence:derived from/YY1
T. .
    <400> 27
   Phe Arg Asp Asn Ser Ala Met
<210> 28
   <211> 7
    <212> PRT
≢ '
    <213> Artificial Sequence
N
   <220>
   <223> Description of Artificial Sequence: derived from YY1
    <400> 28
    Phe Val Glu Ser Ser Lys Leu
     1
    <210> 29
    <211> 7
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> Description of Artificia/ Sequence:derived from MyoD
    Phe Tyr Asp Asp Pro Cys Phe
    <210> 30
    <211> 12
    <212> PRT
    <213> Artificial Sequence
    <220>
```

5

```
<223> Description of Artificial Sequence:derived from CBP
    <400> 30
    Arg Lys Thr Asn Gly Gly Cys Pro Val Cys Lys Gln
    <210> 31
    <211> 14
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> Description of Artificial Sequence:derived from CBP
    <400> 31
    Arg Lys Thr Asn Gly Gly Cys Pro Val Cys Lys Gln Pro Ile
      1
                      5
                                         10
    <210> 32
    <211> 19
    <212> PRT
    <213> Artificial Sequence
H
    <223> Description of Artificial Sequence: derived from CBP
Gly Cys Lys Arg Lys Thr Asn Gly Gly Cys Pro Val Cys Lys Gln Leu
                                          10
Ξ.
Ile Ala Leu
N
ħ
    <210> 33
    <211> 12
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> Description of Artificial Sequence: derived from Mdm-2
    <400> 33
    Lys Lys Arg Asn Lys Pro Cys Pro Val Cys Arg Gln
                                          10
      1
    <210> 34
    <211> 12
    <212> PRT
    <213> Artificial Sequence
    <223> Description of Artificial Sequence:derived from p300
    <400> 34
    Arg Lys Thr Asn Gly Gly Cys Pro Ile Cys Lys Gln
    <210> 35
```

<211> 14 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence:derived from p300 <400> 35 Arg Lys Thr Asn Gly Gly Cys Pro Ile Cys Lys Gln Leu Ile 5 <210> 36 <211> 14 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence:derived from/Mdm-2 <400> 36 Lys Lys Arg Asn Lys Pro Cys Pro Val Cys Arg Gln Pro Ile